

ABSTRACT OF THE DISCLOSURE

A dental curing device includes an elongate wand housing having proximal and distal ends, a light source disposed at the distal end, electronic circuitry at least partially disposed within the wand housing between the proximal and distal ends, and a heat sink. The light source may comprise one or more LEDs. The heat sink comprises a metallic heat sink portion adjacent to the light source and extending partially through the wand housing, and a polymer-based heat sink portion comprising a thermally conductive polymer-based material adjacent to the metallic heat sink portion. The polymer-based heat sink portion may comprise an epoxy-based resin that at least partially surrounds the electronic circuitry. The polymer-based heat sink portion advantageously extends through a portion of the wand housing designed to be gripped by the user when the dental curing light is in use.

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WORKMAN NYDEGGER
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
1000 EAGLE GATE TOWER
60 EAST SOUTH TEMPLE
SALT LAKE CITY, UTAH 84111